

PreCam Hardware Update: 2010-08-05

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1) Pressure Vessel/Vacuum/CryoTiger:

- * New vessel leak(s) identified w/HC at FNAL--fixes underway at ANL today
- * PTFE-covered Getter tested successfully in spare vessel: $P=10 \times P_{\min}$ after 31+ hours with valve closed (better than previous tests)

2) FPSP/CCDs:

- * Multiple successful installs of CCDs by SK & KK, including 2 “solo”
- * Image acquisition is now part of regular operation
- * Gain, Full Well, Linearity issues resolved (see plots)
- * FPSP inserts completed by GD today, flange painting and holes for Thermal Fuse installation tomorrow
- * Next install Friday or Saturday

3) Shutter

- * Shutter tests complete--controlled by SISPI via cRIO; performance within spec for PreCam, consistent with results from TAMU
- * Shutter/Flange to be shipped to CTIO next week, control box to follow later

4) VIB/Monsoon:

- * **Monsoon brackets shipped from FNAL 6/27, at CTIO on 8/3**

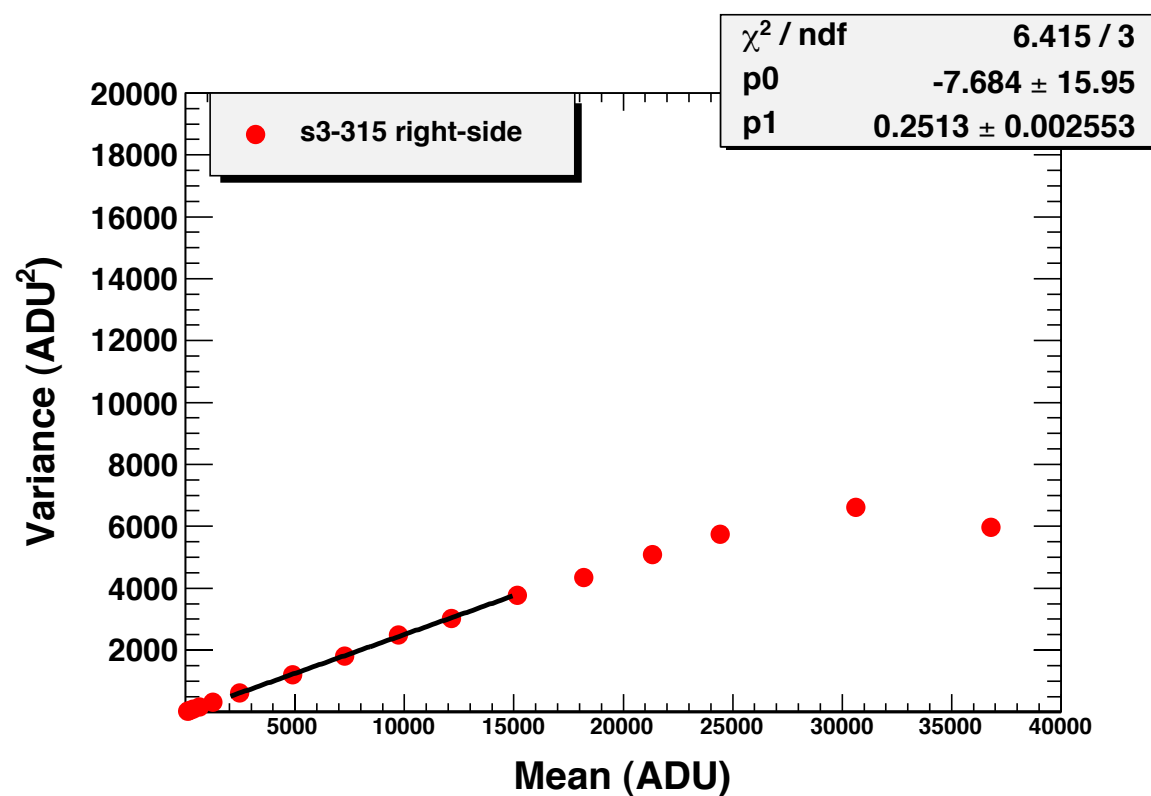
5) Software:

- * All currently-installed software operating successfully
- * To Do: cRIO Pressure/Temperature Telemetry, C-S/TCS Interface, ObsTac/OCS Interface
- * Software development & testing will continue at CTIO

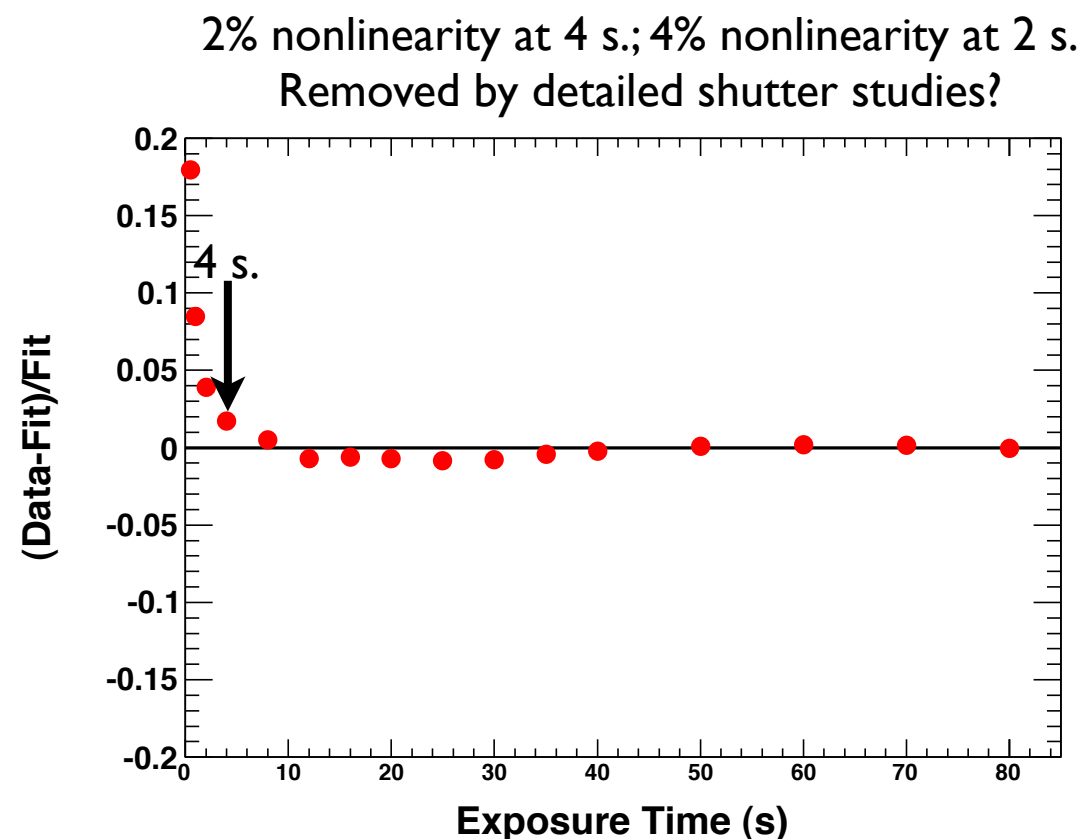
6) Certification/Shipping Plan

- * **Export control issues resolved; precam2 being shipped to CTIO (left Tucson 8/4)!**
- * One more “practice” install of 2 non-Science CCDs
- * Goal: Complete Certification process by August 9; install PreCam Science CCDs that afternoon.
PreCam will ship as soon as Science CCDs are checked out (and replaced with “light bulb” CCDs for shipping)

Gain, Full Well, Linearity Consistent with FNAL Results



Full well not just = ADU at turn-over;
once we apply methods used at FNAL,
results agree



“Certification and Pre-Installation Phase” Schedule:

- PreCam “finishing touches” completed 8/5-8/6
- Final “practice” CCD Installation (8/6-8/7) and Testing (8/7-8/8)
- PreCam Certification Process Complete (8/9, Morning)
- PreCam Science CCDs Installed (8/9, Afternoon)
- **KK leaves for CTIO (8/9, Evening)**
- **PreCam Ships (week of 8/9-8/13)**
- Additional Software Development & Testing (8/11-8/23)
- Curtis-Schmidt “Dirty Work” (8/11-8/20; all 10 days probably not needed)
- PreCam Arrives at CTIO (8/20-8/23)
- Installation, Commissioning, and Calibration, followed by Observing!